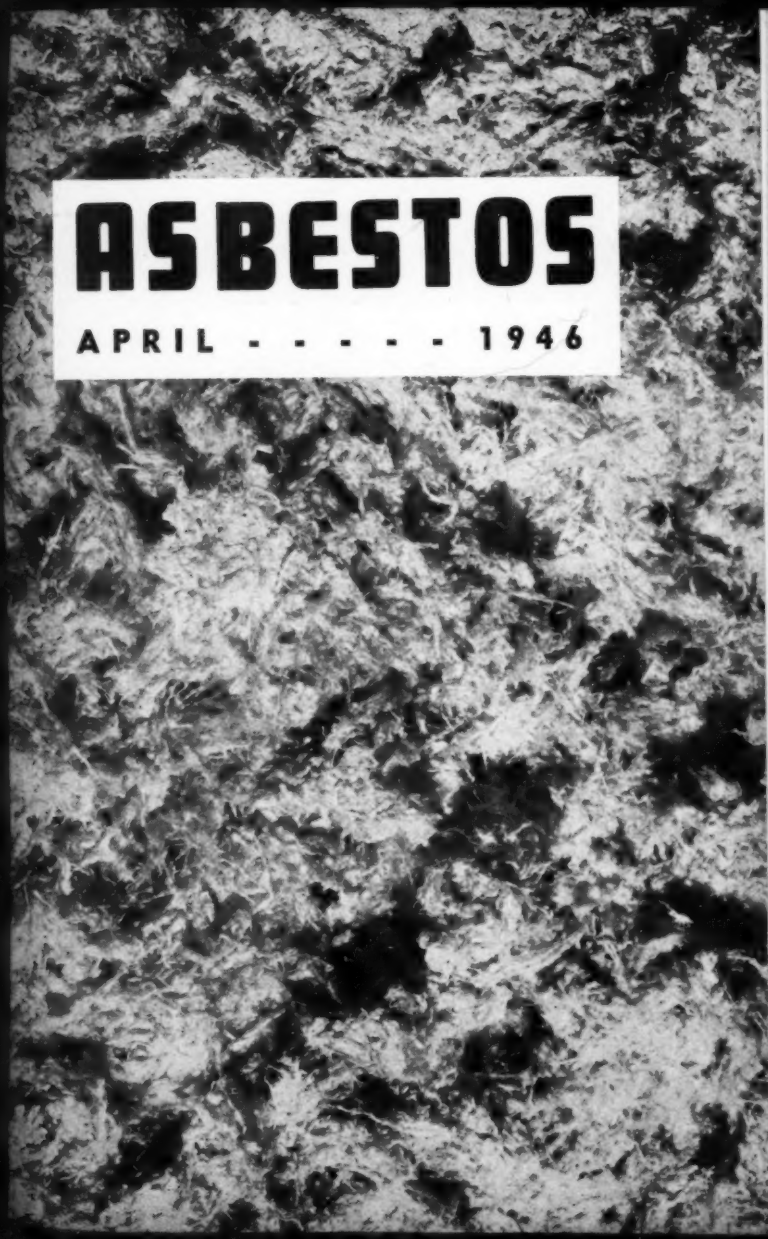
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BUILDING CODES

Manufacturers of building materials are getting *building code conscious.*

This is a project which has been treated rather desultorily in this country in the past. Now that we face a huge construction program if the people of the nation are to be adequately housed, a uniform building code is needed as never before. The Pacific Coast Building Officials Conference has done some work along this line (see announcement of their newly published code on page —).

In the March 23rd issue of "This Week" (the magazine widely distributed by various Saturday evening and Sunday morning newspapers) is an article by Alfred Schindler, Under Secretary of Commerce, titled "Here's the Key to Cheaper Houses". In it Mr. Schindler calls attention to the fact that many city building codes are twenty years old, or older, and therefore do not include some of the newer building materials. And some of the regulations in these out-of-date codes make the building of houses and homes, extremely expensive at this time.

Another argument for a uniform building code which would cover the entire country (as a Federal Code would) is the fact that without it whole villages can be built outside city or town limits, with the cheapest, flimsiest materials—almost guaranteed to tumble down about the owners' ears within a ten or twenty year period. We know of one or two such "developments" in our own part of the country, there must be hundreds of others.

A code covering the whole country would naturally have to take into consideration the differences in climate and terrain, etc., in different areas, but surely provision for such differences could be easily made without even a great deal of brainwork.

The whole subject of building codes is too large to be fully discussed in a brief editorial, but those of our readers who are interested in the making, handling or selling of building materials, would do well to devote some of their time, thought and energy to the project. We should be glad to receive their ideas and continue the discussion.

GERMAN TECHNICAL DOCUMENTS

The Office of the Publication Board of the U. S. Department of Commerce is asking American Industries and scientific groups for help in deciding what sort of information should be sought in the tons of German technical documents which have been uncovered in Germany and which after selection will be microfilmed for American science and industry.

If interested write to John C. Green, Executive Secretary of the Office of Publications Board, Washington, 25, D. C., either for further information, or making suggestions as to the kind of material which would be helpful to the Asbestos Industry or to science in general.

"Never before", says Mr. Green, "has American Industry had so great an opportunity to acquire information based on years of painstaking research quickly and at little cost. This is part of our reparations from Germany, in which any American may share directly. The danger is that we may not take full advantage of this opporunity while we can".

CONTRAST

On the front cover of the April 1st issue of "Newsweek" is a picture of a European child; on the back cover is, an advertisement of cigarettes which pictures an American boy.

Spread the paper out so that you see both front and back covers at the same time and you get a contrast which is startling, and a better argument for aid to starving Europe than anything else we have seen. It shows the tremendous difference in living conditions in the two countries—these United States and Europe.

America, the land of plenty, will suffer not at all (except perhaps in slight inconveniences) because of the food being sent to those in Europe who have none.

• • • —

The great test of life is our capacity to meet bravely the trivial commonplace things.

DEVELOPMENT OF ASBESTOS FRICTION FACINGS

By F. C. Stanley, Ph. D.[1]

It was the advent of the automobile that caused the need of brake lining. To those unfamiliar with braking requirements of automotive vehicles, brake lining seemed as visionary as skyhooks.

Brakes were used on stage coaches and on railroad cars, external wooden shoes on the coaches and cast iron external shoes on railroad cars. We find these still in use and without lining.

Brake lining functions better than metal brakes in nearly all installations because it has a higher friction value, is less noisy in operation and is affected less by lubricants. It should be explained that actual lubrication requires an unbroken liquid film between slipping surfaces. Less oil or grease is required on metal surfaces to produce this continuous film than on lining surfaces, because lining absorbs more oil or grease and an incomplete film of oil or grease fails to lubricate.

Metal to metal brakes used on buses have sometimes become useless due to grease leaks from the rear axle housing.

Because metal to metal brakes are subject to this hazard, some states prohibit their use on public vehicles carrying passengers.

The first brake lining produced consisted of cotton tape saturated with Colmanite paints containing linseed oil. This was previous to 1905 and was used on Locomobile steam cars and Knox gasoline propelled vehicles.

The performance of this lining was satisfactory except that occasionally on long steep hills it took fire and burnt up. Attempts were made to overcome this defect by the use of various fireproofing materials, such as ammonium phosphate, but with incomplete success. It was soon realized, however, that no combustible substance should be used in the lining fabric and asbestos seemed to

[1] Formerly chief engineer of the Raybestos Division at Bridgeport, Conn.

be a logical substitute for cotton. It was already in use for theatre curtains and as gaskets for gas engines, red and black woven packing. Asbestos was substitued for cotton to increase the resistance of the lining to the heat developed by friction.

Braking by employing friction converts all the energy of motion into heat and all friction braking devices must provide for disposing of or dissipating the developed heat.

The first asbestos brake lining was sold in 1906 to the Peerless Motor Car Co. of Cleveland, Ohio. To the best of our knowledge this was the first recorded sale of asbestos brake lining in the world.

Woven brake lining was made in two types; entire woven, and folded and compressed. To form the latter, single ply asbestos cloth was frictioned with rubber, folded to produce the desired width and thickness and then vulcanized in suitable hot presses. This type of lining is still in extensive use and produced by many lining manufacturers.

As long as nearly all automotive brakes were of the flexible external band type a rigid lining decreased the effectiveness of the brake, because it interfered with the wrapping effect. There was a tendency to consider the most flexible lining as the best, and lining which one could not tie in knots without breaking, was condemned. However, companies producing these very soft linings had so much trouble with bleeding, fading and grabbing, that some lining manufacturers told all customers that lining should always be given a breaking-in period and trouble should be expected if severe applications were made on new lining.

However, it was discovered as early as 1917 that if woven lining was charred after attaching so as to become semi-rigid, it gave long dependable service and some manufacturers of motor cars treated attached lining in this way to insure long life, uniform effectiveness and no breaking-in.

In 1918 molded clutch facings were developed and in 1922 internal four wheel brakes were installed on some passenger cars. These brakes did not need flexible lining,

as brake shoes were rigid. Because of the withrawal of the demand for flexibility, it was possible to supply more fully cured brake lining and so avoid complaints of bleeding, fading and grabbing.

It will be clear to all that as organic oils, gums and resins are used as binders for asbestos fibres to make brake lining, the extent of curing, or baking will have a great influence on performance, as well as rigidity. Molded lining by its name indicates more or less rigidity. It is usually less compressible than woven lining; it may be manufactured from the shorter, less costly asbestos fibres, and may be extruded, cold molded, hot pressed, or the fibres may be sheeted like paper and built up by lamination to a desired thickness, then saturated with a liquid binder compound and set by heat.

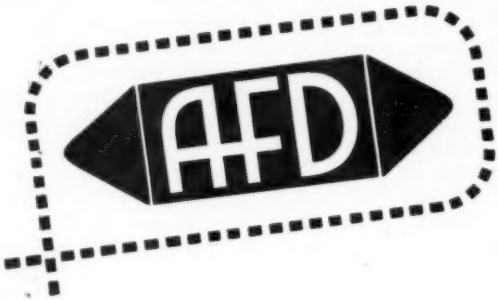
The above described millboard process is extensively used, and is very economical for the production of clutch facings, as it permits 75% of the unsaturated sheeter stock to be returned to the beaters and so made into new sheeter stock.

Unwoven types of lining of the rigid type may be produced with a very large variety of characteristics of friction value, durability, adaptability to operate when wet, in oil, or dry. Because unwoven lining is adaptable over a larger field of operation, it is now considered more important than woven lining.

As long as flexibility was demanded of woven brake lining, its usefulness was limited to braking temperatures below that of curing or baking, about 350° F. and this demand retarded the development of brake lining.

The reason for using an organic binder in brake lining is largely concerned with the effect upon contacting metals and inability to find a suitable inorganic binder. The ferrous metals only can be used for brake drums, or braking surfaces, as nearly all other metals load lining with scuffed metal to such an extent that we soon have metal to metal brakes.

The organic binder would seem to limit braking temperatures to the point at which the organic binder vaporizes. It has been found, however, that if certain types of



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molded lining are subjected to very severe abuse, so that they give forth a cloud of smoke, and perhaps flame, the next time they are abused they smoke less and if not destroyed, may give long service. This is a description of the experience with brakes on heavy bombers.

This being the case, the idea was evolved that lining could be made which would not require this severe breaking-in period and a process has been developed called volafuge, which removes volatiles expelled at about 1000°F. from a thin layer on the braking surface of the lining. This process makes bomber brakes effective on the first landing and without preliminary abuse. It is by this means that the limitation put on brake lining by the organic binder has been largely overcome.

Clutch facings of woven asbestos were supplied to Locomobile and Stevens Duryea in 1910 and 1911. In the early days a large number of facings was used in a multiple disc clutch. Cadillac used 16, Buick 10, Stevens 10, and Locomobile 14. In 1942 nearly all passenger cars used only two facings in a single plate clutch, but one company alone produced 8,222,721 facings during that year.

In 1925 a molded facing with integral gear teeth lugs or keyways was patented. This was an important economic gain because the molded facing replaced a steel plate, two facings, rivets and labor of attaching. Where multiple disc clutches were used a much shorter jack was permitted with no loss of clutch capacity.

In efforts to cooperate with the Bullard Co., in supplying cone facings for synchronizing speed in engaging the spindle drive on their multimatic, a cone facing was developed which was used experimentally as a drive for superchargers on Pratt & Whitney engines.

In the period preceding 1935 molded lining was introduced to the manufacturers of reverse gears used on marine Diesel engines. These reverse gears were planetary and engaged by gripping a drum with a band. A lining was supplied for these bands to replace metal to metal. The result was greater efficiency, no engine wear due to metal grit and more than 12 times the durability of the metal bands.

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Because molded material gave better service for clutches than metal, due chiefly to heat expansion of the metal, this material was also adopted as a lining for cone clutches and because this lining could not be riveted permanently, a method was developed to first attach the lining to the cone by cementing and afterwards cure or bake it to set the binder.

These reverse gears were used on P. T. boats, L. S. T. and practically all invasion craft, and the war demand for this material has therefore been great.

We also developed a type of material suitable for the multiple disc clutch which drives the supercharger of engines used by Wright Aeronautical, and our war production of these facings cemented to steel plates with gear teeth has been tremendous.

Lining or facing material is used in thousands of other war activities which are not less important, but less conspicuous than those outlined.

It has been mentioned already that cementing produced a more permanent attachment of facings to metal than riveting. It has been found that the cemented bond has about six times the tensile strength of the rivet and may be easily applied. Brake lining applied by cementing offers about three times the durability of riveted lining. In fact, if adjustment permits, it can be used until the brake shoe contacts the drum. There is a further advantage in that metal contact is avoided during a period three times as long as with rivets, and contact of rivets with drum is one of the chief causes of scored drums. The absence of rivet holes, or cavities for the collection of grit to score drums, is an additional advantage.

The use of the hydraulic drive and the hydaulic brake will, no doubt, be more widespread in the post war period, but it will be a long time before friction facings are abandoned. In fact, many friction elements are used in the most popular hydromatic drives now in use.

Friction facings are extensively used in rubber mills, tire making, machine shops, textile mills, glass making, road making machinery, earth moving, mining and many other industries.

All sorts of characteristics have been demanded of

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friction facings;—they must be durable, have friction values from .05 to .80 must not score the contacted metal, must not be lubricated by a lubricant except when desired, must be unaffected by water, etc. Most of these demands are unreasonable, but we have found ways to solve nearly all the friction problems that come to us. For instance the Navy needed a lining for winches used for launching life boats which might be used in the worst storms, and therefore under water. Their problem was solved by supplying a friction material in which a very fine abrasive was incorporated.

Metal to metal friction surfaces, were at one time condemned because of expansion and danger of lubrication. Metallic friction facings for clutches and brakes are now produced, but the method employed in fabricating them avoids nearly all the faults of metal to metal facings. A thin layer of sintered metal consisting of powdered metals combined with powders calculated to increase friction are applied to steel surfaces. These powders are not in such proportions that would alloy, but enough low melting metals are employed to weld, braze, or solder the powdered mixture to the steel. By this method friction values over a wide range may be supplied, heat transfer accelerated because of the better conductance of the sintered metal, and much greater durability than we have from non-metallic facings.

There are two distinct advantages of sintered metal over a metallic casting. It may have much higher friction and because of its thinness and attachment to steel, nearly all the difficulties of expansion, experienced with bronze castings, are avoided.

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AUSTRALIA

Available thru Mineral Trade Notes, January 20th issue (just published by the U. S. Bureau of Mines) is a great deal of information on asbestos in Australia, especially covering the war years—1939 to 1944 inclusive.

The most important of this data is given below; if you wish to have the whole article in your files, (and we believe those interested in raw asbestos and its production in various fields should add it to their asbestos library) a copy may be obtained by writing the U. S. Bureau of Mines at Washington, D. C., for the January 20th issue of Mineral Trade Notes.

CRUDE ASBESTOS OUTPUT 1939 - 1944

	Long Tons (2240 lbs.)
1939	78
1940	489
1941	252
1942	329
1943	688
1944	764

PRODUCTION OF CRUDE ASBESTOS BY TYPES, COMPARING VARIOUS PERIODS

	1918 to 1923 Tons (2240 lbs.)	1939 to 1943 Tons (2240 lbs.)	1944 Tons 2240 lbs.)
Chrysotile	3,566	1,087	462
Crocidolite	14	1,348	279
Other amphibole	60	165	23
	3,640	2,600	764

Estimate of production in 1945 is 1200 tons, of which approximately 60% is chrysotile.

Another interesting table is that of exports of asbestos and asbestos goods. Unfortunately this has been made up by *years ending June 30th*, but will at least give an idea of exports.

Year ending June 30	Crude Asbestos Tons (2240 lbs.)	Value	Asbestos Goods Value
1941	284	£10,692	£68,501
1942	102	4,104	108,987
1943	27	647	29,929
1944	87	2,455	26,881

About 96% of the asbestos used in Australia in 1944

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was chrysotile, of which only 3% was provided by production. In the same year all crocidolite used in local manufacture was of Australian origin, and the large deposits in Western Australia which are now being developed are capable of supplying many times the tonnage produced in 1944, provided a satisfactory local or export market can be developed. On the other hand, it is obvious that a large proportion (probably more than 90%) of the chrysotile needed in Australia will continue to be imported. A wider application of blue asbestos is being sought in certain sections of the industry, so that Western Australia crocidolite may replace part, tho probably only a small part, of the imported chrysotile.

The principal producers of chrysotile asbestos in Australia are Asbestos Mines, Pty., Ltd., operating at Baryulgil, New South Wales, and Tasmanian Asbestos, Pty., Ltd., at Zeehan, Tasmania.

The principal producers of crocidolite are Australian Blue Asbestos, Ltd., and West Australian Blue Asbestos Fibres Co., Ltd., both of which operate in the Hamersley Ranges, Western Australia.

Tasmanian Asbestos, Pty. Ltd., and Australian Blue Asbestos, Ltd., are both subsidiaries of the Colonial Sugar Refining Co., Ltd.; Asbestos Mines, Pty. Ltd., is a subsidiary of both James Hardie & Co., Ltd., and Wunderlich, Ltd., of Sydney.

In addition to the foregoing, chrysotile is produced by syndicates operating on the Pilbara Goldfields, Western Australia, and amphibole asbestos by individual producers in several states.

About 14,000 tons of raw asbestos, of which 96% was chrysotile, were consumed in Australia during 1944. Of this consumption about 95% was provided by imports and only 5% by domestic sources. The apparent consumption in 1939 was 9,000 tons.

Grading of asbestos in Australia has not been standardized and as a result care must be exercised in comparing graded products from different sources. Comparison by grade of Australian with imported asbestos is even more confusing.

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The following table is also of interest:

CONSUMPTION BY USES

Use	Percentage
Asbestos-cement products	95.0%
Millboard	2.0
Boiler lagging, packings, insulation material	1.6
Brake linings	1.0
Plastic asphalt, asbestos cement, etc.	0.3
Rope, yarn, gaskets, asbestos clothing, etc.	0.1

The report takes up 7½ pages in Mineral Trade Notes, and also contains information as to prices, imports, exports, and the names of firms producing the various asbestos products.

1946 ASHVE GUIDE AVAILABLE

The 24th edition of the Heating Ventilating Air Conditioning Guide, published by the American Society of Heating and Ventilating Engineers, 51 Madison Ave., New York, N. Y., is recently off the press. The technical text contains 51 chapters grouped under general section headings of Principles, Human Reaction to Atmospheric Environment, Heating and Cooling Loads, Combustion and Consumption of Fuels, Heating Systems and Equipment, Air Conditioning, Special Applications, and Installation and Testing Codes.

One full chapter (No. 28) is devoted to Pipe Insulation; another (No. 41) to Air Duct Design; No. 49 to Marine Heating and Ventilation, and there is much other information in the Guide of interest to members of the Asbestos and Insulation Industries.

A new air friction chart based on studies made at the ASHVE Research Laboratory has been prepared for the chapter on Air Duct Design.

The Guide contains 904 pages of technical text, 376 pages of equipment data, and the roll of membership of the Society. It matches previous editions in size and appearance; is bound in blue cloth stamped in gold. Price is $6.00. "ASBESTOS" will be glad to take care of your orders.

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ASBESTOS CEILING IN GRAND CENTRAL TERMINAL[1]

Those of our readers who have recently passed thru the Grand Central Terminal (New York City) may have noticed, altho it is more likely that you did not, that the Terminal was having a new ceiling installed, and decorated.

The story is interesting to the Asbestos Industry because the new ceiling is an asbestos material—Flexboard made by Johns-Manville.

When the Terminal was completed in 1913, the ceiling was painted as a huge astronomical mural, in cerulean blue, gold leaf and gold paint. We do not know what material was used for the ceiling at that time, but after 33 years of service it became necessary to install a new ceiling, and this time 1/8" asbestos-cement Flexboard was chosen, partly perhaps because it had the necessary flexibility to arch the concourse dome.

Thirty thousand square feet of Flexboard was applied for the ceiling, with the rough side out so that there would be no reflection to spoil the illusion of "sky" after the mural was completed. For the gold decorations 40,000 feet of 3/4 inch wide gold leaf was used, and the painting took 750 gallons of paint.

The mural shows the stars, Zodiac and signs of several familiar constellations, with 2500 stars in all sixty of which are provided with individual lights which shine thru Lucite tubes.

And all this was accomplished without disturbing or interrupting the vast traffic in the Terminal, a feat in itself, as more than 500,000 people daily use the Terminal arriving in and departing from New York.

[1] We are indebted to the J-M Power Specialist and J-M News Pictorial for the information in this article.

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ACTIVITIES OF A. S. T. M. COMMITTEE C-16

A. S. T. M. Committee C-16 on Thermal Insulating Materials, which met in Pittsburgh during Committee Week, February 25 thru March 1, has many projects under way including a study of the impact test and the measurement of deflection during flexure and at the breaking point of the preformed block and pipe insulation.

The committee has completed a new method of test for strength of insulating board made from vegetable fibres. This method was submitted for publication this year.

Specifications for blanket or bat thermal insulation for building purposes are under consideration. The committee is studying and obtaining data on water and moisture vapor transmission and also on fire and flame resistance in order to establish the specific requirements for these properties.

In work on physical properties of loose-fill insulation made from both mineral and vegetable materials a study is being made by producers and consumers to determine the physical properties applicable to this type of insulation and following this the data will be evaluated for use in the establishment of specifications.

The group on thermal conductivity of all forms of insulation, which functions under the sponsorship of ASTM., ASHVE, ASRE. and NRC. has selected three methods of test for determination of conductivity of pipe insulation. Check tests will be conducted by various members and results reported at the next meeting. These data will also serve as the basis for the development of a standard pipe conductometer.

The subcommittee on measurement of thermal properties other than thermal conductivity has under consideration the following properties of thermal insulation: (1) heat capacity or volumetric specific heat, (2) thermal diffusivity, coefficient of thermal conductance, (3) effect of prolonged heating at high temperatures, (4) heat (dimensional) stability at high temperatures, (5)

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EVERY TYPE OF RAW ASBESTOS CARRIED IN STOCK: ARIZONA • AUSTRALIAN • BOLIVIAN • CAN• CHINESE

Manufacturers of *Asbestos Cement Board and Cyprus Asbestos Siding* . . . Creators of

L OF INDIA TO NEW JERSEY

be for American Industry.

Then, on to the sea . . . and on again through storm-tossed waters . . . to the plant of Asbestos Limited Inc. in Millington, N. J.

* * * * *

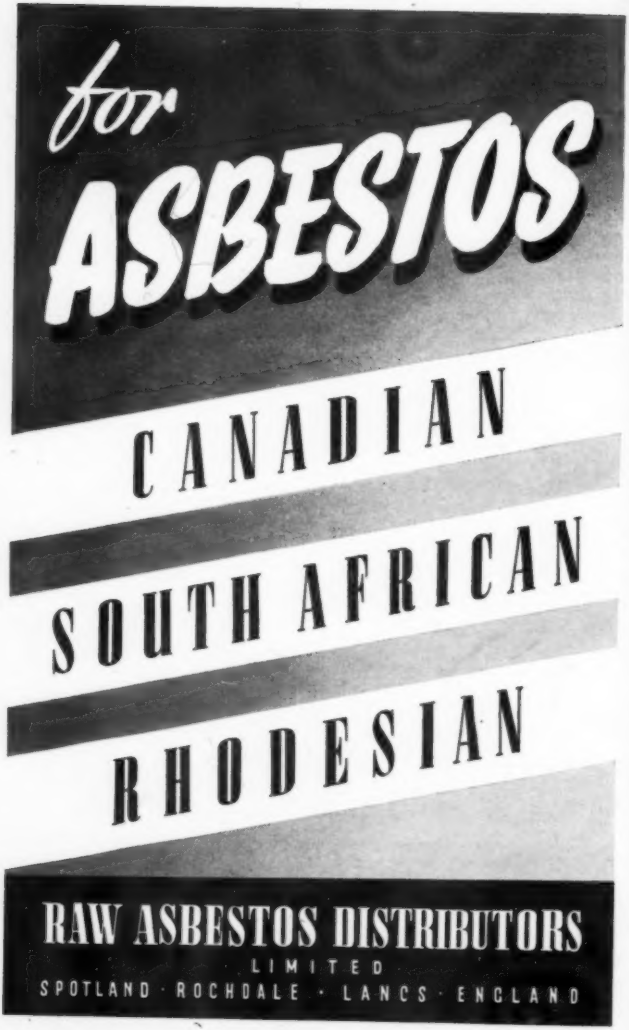
For more than twenty-five years Asbestos Limited Inc. has been the only company in the United States to maintain ample supplies of raw Asbestos from every known source.

S MITED INC.

SBU SOUTH AFRICA . . . WORKS: MILLINGTON, NEW JERSEY

CAN • CHINESE • CYPRUS • INDIAN • RHODESIAN • RUSSIAN • SOUTH AFRICAN BLUE AND YELLOW

manufacturers of *New Era Insulation*, lightest rigid insulation for all temperatures


for
ASBESTOS
CANADIAN
SOUTH AFRICAN
RHODESIAN
RAW ASBESTOS DISTRIBUTORS
LIMITED
SPOTLAND · ROCHDALE · LANCS · ENGLAND

surface-emissivity, (radiation).

A special committee is being appointed to study the application of a rational dimensional standard for use by the 85% magnesia industry. At the present time some seven manufacturers of thermal insulation have adopted the rationalized dimensional standard.

Another important problem concerns studies of vapor barriers applied to thermal insulation used especially in the air conditioning and refrigeration fields where the group in charge has under consideration a draft of a test method. Check tests are now being conducted for water vapor permeability of sheet materials. It is hoped that a tentative method will be completed at the next meeting of the committee.

Officers of Committee C-16 are Chairman, E. T. Cope, The Detroit Edison Co., Detroit, Mich.; Secretary, Ray Thomas, Staff Engineer, Carbide and Carbon Chemicals Corp., South Charleston, W. Va.

Well introduced SWISS firm of the RUBBER and ASBESTOS LINE

Seeks to import the products or to take over the general representation of efficient American firms producing all articles of rubber, synth caoutchouc, asbestos and vulcanized fibre.

References:

Swiss Bank Corporation, New York, N. Y.

M. MATTMAN
Post Office Box 16
LYSS (BERN), SWITZERLAND

MARKET CONDITIONS

GENERAL BUSINESS

The state of general business is such that it is practically impossible to attempt any discussion of it when limited to a few short paragraphs.

Perhaps the most outstanding feature is that with costs advancing, principally because of the increases granted labor, and with price ceilings maintained for the most part at the old levels, many products are off the market and unobtainable. Manufacturers simply cannot afford to produce articles if there is no room for profit between the rising costs and the set selling prices.

ASBESTOS-RAW MATERIAL

"Demand for all grades of fibres is excellent, and everybody will be taken care of except possibly certain demands outside the U. S. A." comments one of our correspondents.

A very great shortage still continues in shingle fibre and this condition is sure to exist for several years. Our advice to anyone contemplating the erection of an asbestos-cement factory is that they make sure of their fibre requirements before making definite plans for the erection of factories. Rumors of higher prices on asbestos fibres continue —July 1st, 1946 is now given as a tentative date.

ASBESTOS - MANUFACTURED GOODS

Asbestos Textiles. There has been no apparent decrease in the demand for asbestos textiles during the past month. Now that the nationwide strikes seem to be subsiding demand should soon show signs of increasing.

Asbestos Brake Lining. In this market brake lining and block sales are somewhat under wartime peaks, which conforms with expectations, but they are still at a much higher level than pre-war. Clutch facings are still in the "short" classification.

February sales not only decreased from those for January but also declined from the corresponding period last year. The total for the first two months of 1946 also declined from the comparable period in 1945.

NORRISTOWN'S

ASBESTOS PRODUCTS

ARE THE RESULT OF

50 YEARS'

MANUFACTURING EXPERIENCE

NORRISTOWN

MAGNESIA & ASBESTOS COMPANY

NORRISTOWN, PENNSYLVANIA

While sales for domestic consumption followed the trend of total sales, exports did not. Here, the volume was considerably higher than last February's return but slightly lower than that for January 1946.

Asbestos Paper. Because of the scarcity of rag felt, more asbestos paper is being saturated for roofing purposes than ever before, and other industries using asbestos paper are heavy in their demand. As a matter of fact requirements are exceeding producing capacity. Regular commercial requirements are normal. Prices are, under these circumstances, holding firm.

Asbestos Millboard. The demand for Millboard has increased considerably during the past thirty to sixty days; in fact both commercial and equipment business are keeping this market active. Return of production of automobile, electrical equipment and other such production using millboard, puts demand on production about equal to capacity.

Insulation. High Pressure. Government restrictions on industrial and commercial buildings have had their effect on this business, with a noticeable slowing up of orders. Requirements currently are for maintenance work. With production slow because of labor conditions in many factories there appears to be a satisfactory balance. When restrictions are removed, this industry should be sufficiently active to absorb full production for several years.

Another correspondent tells us that orders in their factory continue to come in steadily and a heavy backlog of orders is being accumulated, with no indication at this time of any change in this condition.

Insulation. Low Pressure. With boiler and radiator production still not up to normal, low pressure requirements are not as great as they will be when the industrial program is being carried along in full swing. With present heavy demands for asbestos paper and wool felt restricting allotments to the low pressure field, requirements for this type of insulation are satisfactory.

We also have a report from one factory to the effect that the backlog of their orders in both pipe covering and boards is continually mounting, with no sign of change

Announcing

A NEW ASBESTOS PREPARATION PLANT

Inquiries Invited from All Countries

•

ARIZONA
(Iron Free)
AMOSITE
BLUE
(South African)
(Bolivian)
CANADIAN
CYPRUS
RHODESIAN
RUSSIAN

•

We have installed the most modern Asbestos Preparation Plant in America. We are in position to supply any of above asbestos fibres suited to your particular use.

•

High strength obtained using our Blue Asbestos in Asbestos cement pipes and corrugated sheets.

•

ASBESTOS INTERNATIONAL CORPORATION

H. S. STEVENSON, *President*
451 Communipaw Ave. Jersey City, N. J.

in the very near future.

Asbestos-Cement Products. Demand for asbestos shingles and sidings continues to be far in excess of the industry's production facilities, even if all factors were contributing to maximum production, which is not the case as several factors prevent the maximum use of such facilities. Some of the largest producing units have been shut down for several months on account of strikes.

Production of roof shingles has stopped entirely except in the deep South, because of the inability of manufacturers to absorb substantial increases in the cost of cement, labor and other items, as against the very low ceiling prices. This situation is likely to spread to other asbestos-cement items as recent increases in labor rates make themselves felt in the form of increased costs.

The Industry stands ready to do everything possible to alleviate the present shortage of building materials for both new houses and necessary rehabilitation of old structures, but is unable to do its best under unfavorable restrictions. What effect Veterans Housing Program No. 1 will have on the general situation depends largely upon the administration of the order and the extent to which necessary rehabilitation is allowed to continue. There would be no sense in blocking necessary rehabilitation in order to save asbestos-cement materials for new construction unless that new construction is made possible by the availability of other building materials. It is to be hoped that the administration of the order will be in practical hands.

As to corrugated and flat sheets, the recent strikes have aggravated the already oversold corrugated asbestos-cement market so that the Industry is pretty well sold out for the balance of the year. Demand continues strong for flat asbestos-cement sheets.

Asbestos-Cement pipe—there is a large demand at present for various types, but the future is difficult to forecast because of unsettled labor conditions and uncertainty as to governmental action on construction control.

The above represent the opinions of men closely in touch with the respective markets. All comments are welcome.

CONTRACTORS AND DISTRIBUTORS PAGE

CONSTRUCTION RESTRICTION ORDER

The new Construction Restriction Order, issued by the Civilian Production Administration on March 26, requires the person initiating a new building, a repair job, an aleration job, or an installation job over a certan minimum ($400 for a house or other structure, such as a garage, on residential property, designed for occupancy by five families or less) to obtain a permit from the CPA before going forward with it.

The order exempts repair and maintainance work in industrial, utility and transportation buildings, and does not apply to buildings the construction of which is already under way.

Those interested should write the CPA at Washington, D. C., for a copy of their release C-P-A-255, including Veterans Housing Program Order 1—General Restrictions on Construction and Repairs.

BUILDING

Residential building in February mounted steadily in the thirty-seven states east of the Rocky Mountains.

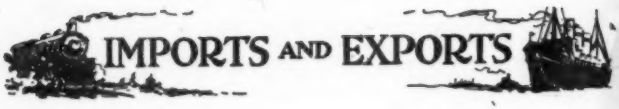
The month's dollar volume of contracts awarded, according to F. W. Dodge Corporation, amounted to $102,079,000 and was the highest peacetime February residential total since 1929.

While the gains in residential construction were most pronounced, increases of 1 per cent in nonresidential construction over January and 130 per cent over February 1945, were also reported.

The total for the first two months of 1946, for all construction contracts awarded in the states east of the Rockies, was $744,900,000, a gain of 159 per cent over the corresponding two months of last year.

"The substantial gains in residential building contracts in February, in the face of uncertain conditions in building materials manufacture and distribution," a spokesman for the Dodge corporation declared, "lend emphasis to the point of view, that the industry has the capacity to meet the demand for housing.

"There still remain, however, unsolved price and wage problems. The proper solution of these problems, now under intensive study by various government agencies, will open the doors to the biggest residential volume in th nation's history."



Exports[1] from United States	Year 1945	
Unmanufactured Asbestos	Tons (2240 lbs.)	Value
To Argentina	141	$ 17,928
Mexico	108	14,221
Portugal	85	8,155
Peru	16	1,904
France	2,768	320,032
Curacao	27	1,273
Canada	7	1,876
Cuba	33	1,311
Venezuela	1	625
Colombia	831	120,254
Ecuador	—	47
Brazil	36	5,525
Uruguay	—	270
Belgium	3,065	282,011
Switzerland	397	52,826
Belgian Congo	29	2,052
Chile	13	1,195
Sweden	66	4,403
Australia	2	400
Haiti	—	30
N. Rhodesia	—	25
Other Countries	9	812
1 Import Figures for 1945 not yet available.	7,634	$837,175

Manufactured Asbestos Goods	Year 1945 Quantity	Value
Asbestos Paper, Mlbd.& Rlbd.	Lbs. 1,507,244	$ 136,019
Asbestos Pipe Covg. & Cement	Lbs. 3,649,851	213,468
Asbestos Textiles & Yarn	Lbs. 385,943	262,204
Asbestos Packing	Lbs. 2,943,685	1,732,195
Asb. Brake Lng. Mld. & Semi-Mld.	Lbs. 2,185,463	1,580,652
Asb. Brake Lng. Woven	L. Ft. 353,028	236,099
Asb. Clutch Fcgs. Mild. & Semi- Mld.	No. 881,017	346,104
Asb. Clutch Fcgs. Woven	No. 479,829	211,845
Asb. Brake Blocks Mld. & Semi-Mld.	Lbs. 285,113	218,374
Asb. Brake Block Woven	Lbs. 7,374	7,715
Asb. Sheets[1]	Lbs. 3,561,751	252,325
Asb. Roofing	Sqs. 80,453	539,657
Other Asb. Mfrs.	Lbs. 8,237,070	709,676
		$6,446,333

Canada

(Statistics by Dept. of Mines, Province of Quebec)

January 1946	36,511 tons	(2000 lbs.)
January 1945	31,405 tons	(2000 lbs.)
February 1946	29,612 tons	(2000 lbs.)
February 1945	37,473 tons	(2000 lbs.)

Rhodesia.

(Published by Rhodesia Chamber of Mines)

November 1945	4,692.10 tons
Value	£145,275
December 1945	4,692.03 tons
Value	£140,370

A typewritten tabulation received from the Rhodesia Chamber of Mines gives the production in Rhodesia month by month for the war years (1940 to 1945 inclusive). Totals for the years are given below; the monthly tabulations will be supplied to anyone interested upon request. Note these figures differ from those supplied in our February 1946 number, page 35, which covered *shipments* rather than production.

	Tons (2000 lbs.)	Value
1940	56,007	£1,106,881
1941	44,134	910,041
1942	55,803	1,488,052
1943	58,146	1,673,025
1944	58,293	1,674,467
1945	56,348	1,788,386

Asbestos Insulating Company

Corner Astor and Main Streets

NORRISTOWN, PA.

Offers for sale 14 tons of Reprocessed Bulk Amosite Fibre in 50 lb. bags.

Will sell as entire lot or in small quantities as desired.

Samples and price furnished upon request.

NEWS OF THE INDUSTRY

BIRTHDAYS

P. O. Baker, Sales Representative, General Asbestos & Rubber Co., Providence, R. I., April 18.

Lorne Baine, President, Atlas Asbestos Company Ltd., Montreal, P. Q., Canada, April 19.

Alvan D. Simpson, President, Asbestos Erectors, Inc., Bound Brook, N. J., April 19.

George A. MacLellan Managing Director, George MacLellan & Co., Glasgow, Scotland, April 19.

Frank T. Hearst, Manager Kelley Asbestos Products Co., Kansas City, Mo., April 20.

H. H. Robertson, President, H. H. Robertson Co., Pittsburgh, Pa., April 21.

Clare S. Jamar, Vice President, Walker-Jamar Co., Duluth, Minn., April 29.

Donald H. Spicer, General Manager and Director, World Bestos Corp., Paterson, N. J., April 20.

Merlin W. Simon, Secretary, Sprinkmann Sons Corp., Milwaukee, Wis., April 30.

Richard H. Jaffer, President, York Insulation Co., Inc., Hillside, N. J., May 1.

George S. Fabel, President, Southern Asbestos Co., Charlotte, N. C., May 7.

L. L. Cohen, Chairman, Union Asbestos & Rubber Co., Cicero, Ill., May 7.

C. G. Dandrow, Vice President, Johns-Manville Sales Corp., New York City, May 12.

L. M. Cassidy, Vice President, Johns-Manville Corporation, New York, May 13.

Eric Hammarstrom, Sales Manager, Philip Carey Co., Ltd., Montreal, Canada, May 14.

H. Whittaker, Director, Cape Asbestos Company Limited, London, England, May 14.

A. M. Ehret, Sr., Chairman, Ehret Magnesia Mfg. Co., Valley Forge, Pa., May 15.

Congratulations and best wishes to all these gentlemen on the occasion of their birthdays.

SOUTH AMERICAN TRIP

J. A. Marcotte, General Sales Manager, and A. L. Penhale, Secretary, Asbestos Corporation Limited, recently returned from a two months' trip to South America, during which they visited asbestos manufacturers in Rio de Janeiro, Sao Paulo, Brazil; Montevideo, Uruguay; Buenos Aires, Argentina; Santiago, Chile; Lima, Peru; Bogota, Colombia; and in Mexico City.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:

ARNOLD W. KOEHLER

415 LEXINGTON AVE. **NEW YORK CITY**

TELEPHONE—VANDERBILT 6-1477

STRIKE SETTLED AT J-M MANVILLE AND WAUKEGAN PLANTS

The 117 days' strike at the J-M plant at Manville, N. J., was settled on March 14th, and the 128 days strike at the Waukegan factory was settled on March 28th. In addition new contracts have been agreed upon at Lompoc, Nashua, Watson and Billerica.

Negotiations for new contracts are still underway at Redwood City, Los Angeles and Pittsburg, Calif.

In a letter written to all members of the J-M organization on March 15th, President Lewis H. Brown calls attention of the employees to the fact that the "substantial adjustments which have been made in earnings of salaried employees at all locations, create a very difficult problem in the face of rigid price ceilings which are still holding J-M selling prices at the pre-war level. The OPA placed ceilings on all J-M products when the war started and our prices are still frozen, despite the great increase in operating costs."

In brief, the situation thus created makes it necessary for the company to discontinue the manufacture of some of the products which were showing substantial losses even before current wage and salary increases. On most of these, applications for price relief have been before the OPA for many months.

Mr. Brown's letter states that the company must temporarily discontinue the manufacture of asbestos roofing shingles, and are also obliged to curtail the manufacture of other products, including laminated asbestos pipe covering, DeLuxe Flexboard, insulating board sheathing, insulating brick and asphalt tile. The letter further says that employees handling these products will be assigned to comparable jobs on other materials.

WARREN & BAILEY CO.

Richards Matthews has been made Manager of the Insulation Department of Warren & Bailey Company, Los Angeles, distributors for Philip Carey Mfg. Company and Cork Import Company. He takes the place of C. T. Butts, who passed away recently.

Mr. Matthews is a former president of the Pacific Coast Asbestos Association; he started with the Warren & Bailey Co. as a boy and has been actively directing the insulating work for some time before Mr. Butts' death.

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L. C. HART, Vice President of Johns-Manville Sales Corporation, and general sales manager of their building materials department, is scheduled to speak at the forthcoming Annual Meeting of the Chamber of Commerce of the United States to be held in Atlantic City, from April 30th to May 2nd inclusive. His subject will be "The Future of Construction," and will be given on May 1.

ARTHUR R. HAHN JOINS ASBESTOS-CEMENT ASSOCIATES,INC.

Asbestos-Cement Associates, Inc., announces that Arthur R. Hahn has joined this company of industrial consultants to the asbestos-cement trade.

Arthur R. Hahn

Mr. Hahn received his engineering training at Rensselaer Polytechnic Institute, Newark College of Engineering, and Columbia University.

His wide experience in the construction field since graduation has been particularly in cement and cement products. He has been in the field for the Portland Cement Association, Massey Concrete Products Co., The Ruberoid Co., and has just resigned from Westinghouse Electric Corporation, where he was a special application engineer.

J-M PLAN NEW PLANT AT TILTON, N. H.

Plans have been announced by Johns-Manville for the erection of a modern manufacturing plant on a 200-acre tract of land at Tilton, N. H., for the making of asbestos insulations. Ground for the new plant will be broken and construction begun sometime in early summer and will progress as fast as material deliveries permit.

With the exception of a few key supervisory personnel, all of the plant's 70 employees will be employed locally. The annual payroll is expected to be about $140,000.

The actual site of the plant is 2½ miles east of Tilton in "The Plains" section at Belmont Junction along the North bank of the Winnepesaukee River. The site is flanked by the Daniel Webster Highway and the Boston & Maine Railroad. Present plans call for the construction of a factory with about 40,000 square feet of floor area which will contain manufacturing, steam generating and pumping equipment. It is expected that the main factory building will be one-story with a two-story midsection, probably constructed of brick and steel with large modern daylight-type windows.

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THE RUBEROID CO. Work has been started at the Mobile, Ala., plant of The Ruberoid Co., on construction of a new factory unit designed to double the present production of asbestos-cement building products there. The purpose of the Mobile plant extension, according to the company annoucement, is to help meet the large and rapidly mounting demand for asbestos-cement shingles and sidings for home construction and modernization thruout the South and Southwest.

DR. J. A. JOHNSON PASSES AWAY

It is with deep regret that Johnson's Company announces the passing on March 4th, of Dr. J. A. Johnson, who at the time of his death was Chairman of their Board of Directors.

Dr. Johnson was the son of W. J. Johnson, one of the Founders of the Company. He was Director of Johnson's Company for twenty years and President of the Company from 1934 to February 1946, when he was appointed Chairman of the Board.

NEW ASBESTOS PREPARATION PLANT

H. S. Stevenson, for many years General Manager of Asbestos Limited, Inc., has organized the Asbestos International Corporation, and is now completing the installation of modern equipment for the preparation of all types and grades of asbestos. The new plant is located at 451 Communipaw Ave., Jersey City, N. J. Mr. Stevenson is president of the Company, which will do a world-wide business and has already appointed several foreign agents; it is in position to furnish all grades and types of asbestos from the four corners of the earth.

One unique feature of the business is the filtration asbestos department, for the preparation of fibre used in the filtration of blood plasma, penicillin, wines, drugs, acids, etc. This department is sealed off from the rest of the plant so that no impurities can contaminate the filtering fibres.

Mr. Stevenson's many years of experience in the preparation and adaptation of various fibres for particular uses include the development and delivery of over 1000 tons of special asbestos fibre for Standard Oil, requested by General Eisenhower, for the Sicilian invasion, in a period of eight days in July 1943. He also developed the New Era Insulation, and specially prepared blue asbestos for gas masks.

Mr. Stevenson claims great strengths are obtainable thru using specially prepared blue asbestos in asbestos cement pipes, corrugated sheets, and molded products made from asbestos cement flat sheets. He is also the inventor of the process for making solid white sidings of gray cement, and is now preparing to license the industry for the use of his invention.

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W. E. SINCLAIR, ASSOC. INST. M. M., we understand has resigned his position as manager of the Bultfontein Mine (De-Beers Consolidated Mines) to assume a new appointment as manager of the Cape Asbestos Co. properties with headquarters at Koegas, South Africa. Mr. Sinclair will be remembered as the author of two delightful articles which apeared in "ASBESTOS" a few years ago. We hope, now that he is back in the Asbestos Industry, he will favor us with other articles.

THERMOID COMPANY, sales for 1945 totaled $23,041,299, compared with $21,624,287 in 1944. Sales for 1945 included those of its subsidiary in California, acquired early in 1945.

CAREY OFFICERS AND DIRECTORS

George A. Rentschler, President of the General Machinery Corp., Hamilton, Ohio, was elected Chairman of the Board of the Philip Carey Mfg. Company at the annual stockholders meeting held in Cincinnati on Monday, March 25th. Mr. Rentschler has been a Director of the company and Chairman of the Executive Committee for a number of years.

Ten Directors were re-elected and two vacancies, caused by the resignations of E. W. Edwards and W. E. Pierson, were left unfilled. All officers were renamed. The Vice Presidency held by the late William J. Moeller was left unfilled.

Directors re-elected are H. R. Barrett, H. E. Coombe, G. D. Crabbs, Robert S. King, C. C. Merrifield, C. B. Pooler, G. A. Rentschler, J. J. Rowe, E. W. Smith and W. L. Steffens.

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RAYBESTOS-MANHATTAN, INC. Annual report of Raybestos-Manhattan, Inc., issued under date of March 11, shows net income of $1,533,968, or $2.44 per share, compared with $1,677,465 in 1944 ($2.67 per share). In his letter to stockholders the President calls attention to the fact that war orders came to an abrupt end during 1945 and that their company has also been affected by strikes in the automobile, electrical, agricultural equipment industries, and steel plants, which manufacturers use large quantities of the products of Raybestos-Manhattan.

Comparative figures for 1945 with 1944 follow:

	1945	1944
Net Sales, after deduction of discs. and allowances	$49,633,202	$60,892,703
Material Cost	15,362,578	19,512,565
Wages and Salaries	21,309,079	22,327,011
Taxes—Federal, State, Municipal	3,771,162	8,624,053
Depre. and amortization	1,362,674	1,088,361
All other mfg. selling & adm. exp.	5,843,741	6,713,248
Provision for postwar adj. & Conting	450,000	750,000
Net earnings	1,533,968	1,677,465
Div. paid to stockholders	1,334,678	1,334,677
Bal. added to surplus	199,290	342,788

Current assets in 1945 were $19,214,843; current liabilities were $4,116,803.

Annual meeting of Stockholders was held at the Biltmore Hotel, New York City on April 2nd.

ABSCO NEWS, February 1946 issue, which has recently reached our desk, is an especially attractive number, and contains a lot of interesting information—particularly, the two page graph showing "The War's Impact on Seattle Building". If they still have copies available, we know The Asbestos Supply Company, 321 First Avenue South, Seattle, 4, Wash., would be glad to send one to any of our readers upon request. Price is 50c per copy.

ASBESTOS COMPANY OF CALIFORNIA, INC. Harry Hansell, has been elected President of this Company. He was formerly Manager. Mr. Hansell has been active in the insulation and mechanical rubber field for a period of twenty years.

RIC-WIL ISSUES BOOKLET

"Every building in the vast Firestone Industrial Community at Akron, Ohio, obtains Steam and Electricity from One Central Source" is the title of a study of the application of central heating in industry, made available by The Ric-wiL Company, Union Commerce Building, Cleveland, Ohio.

Besides describing steam distribution for the Firestone buildings in general, the study shows in detail, with installation photographs, blue prints and specifications how the new Firestone Research Laboratory, over a mile from the boiler plant, was connected to the existing steam lines with Ric-wiL Prefabricated Conduit. Special services for the Laboratory, one of the most modern of its kind in the world are also described.

Copy of this Firestone booklet may be obtained by request on business letterhead, from Ric-wiL.

• • • —

NOVIMCO-NOVAS INDUSTRIES DE MATERIALS DE CONSTRUAO LTD., is the name of a new firm organized by Filipe Moreira Enes (of Sociedade Portuguesa de Amiantos Ltd.) for the manufacture of corrugated and flat asbestos-cement sheets and asbestos-cement pipes. The address is R. Antonio Candido 248, Porto, Portugal.

ASBESTOS CORPORATION LIMITED. Directors declared a dividend of 20c a share, plus an extra of 10c a share, payable March 31, to record March 7. At this time last year the company paid only the regular 20c dividend. The extra makes the fourth consecutive bonus paid.

During 1945 the company paid 80c regular plus 60c extra while in 1944 they paid 80c regular plus 20c extra.

UNITED STATES RUBBER COMPANY. Walter F. Spoerl has been appointed general sales manager of the mechanical goods division. Mr. Spoerl succeeds Herman A. Everlien, who died suddenly February 21st. Mr. Spoerl began his rubber career 38 years ago as a clerk in the company's sales offices in Chicago. Products of the mechanical goods division include conveyor and transmission belts, hose, rubber mountings, packing and hundreds of other rubber industrial products.

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

FLINTKOTE EXPANDS

A new research laboratory costing about $1,000,000 for plant and equipment, has been announced as part of the expansion program of The Flintkote Company, Inc. It will be located at Morristown, N. J.

Facilities for the manufacture of asphalt tile are being expanded by the construction of additional plants at Los Angeles, Morristown, New Orleans and Toronto. Distribution of these products is made thru the wholly-owned subsidiaries, the Tile-Tex Company and The Flintkote Company of Canada Limited.

The Company anticipates that the mining and milling facilities on its asbestos property at Thetford Mines, Quebec, and the wood-preserving plant at Clarenville, Newfoundland, will soon be operating.

• • • —

THE GLOBE ASBESTOS COMPANY, Globe, Ariz., has completed installation of equipment in its mill and began production on January 31st, according to item in The Mining Journal. This company, a subsidiary of Rheem Reasearch Products, Inc., early in December 1945 leased the DPC-constructed Pine Top asbestos mill a mile east of Globe. Globe Asbestos proposes to lease various properties in the district and mine asbestos which will be milled at the Pine Top mill. R. M. Thomas, executive vice president of Rheem Research Products, Inc., is president of Globe Asbestos Company. His headquarters are at 170 E. California St., Pasadena 5, California. L. Mills Beam is in charge of production at the Pine Top mill.

GEORGE MACLELLAN & CO., LTD., Maryhill, Glasgow, N. W., Scotland, as part of their plan for development, have appointed a planning and engineering manager,—A. W. Pearson, A. M. I. Mech. E., M. Man. A. E., Assoc. M. C. T. Mr. Pearson was assistant manager at the Royal Naval Torpedo Factory, Greenock, being responsible for all planning and rate fixing, and earlier was chief rate fixer in the machne tool department of the Dunlop Rubber Co., Fort Dunlop, Birmingham. This according to the India Rubber Juornal of March 2, 1946.

MASHABA RHODESIAN ASBESTOS CO., LTD. According to note in the February 2nd issue of The South African Mining and Engineering Journal, this firm has been reorganized and is now on a sounder basis. It has been decided to concentrate operations on the Murie property. The company hopes to make considerable profits from the Murie, the company having acquired a new block of claims adjoining the Murie. The D. S. O. and Rosey Cross properties we understand are being merely maintained, but it is hoped that the Honey Bird may be turned to good account later. S. R. Tonkin is General Manager of the Mashaba Rhodesian Asbestos Company.

"DELINEATION OF INDUSTRIAL RELATIONS DEPARTMENT" by Arthur B. Hall, Industrial Relations Manager, Johns-Manville Corporation, Manville, N. J., appeared in the February Executives Service Bulletin published by the Metropolitan Life Insurance Company, at 1 Madison Ave., New York 10. N. Y. We have found the article most interesting.

LOUIS JOSEPH PAPINEAU, Vice President of the Canadian Johns-Manville Company, Limited, died on April 3 at his residence at St. Laurent, Quebec.

Mr. Papineau joined the company thirty-five years ago; he was made vice president in 1930, his headquarters being in Montreal.

STOLTZBURG ASBESTOS (CHRYSOTILE) HOLDINGS, LTD., is a newly formed company in Johannesburg, organized to exploit what is described as a large chrysotile asbestos deposit being opened up in the Carolina district. Capital is £200,000 of which £70,000 is being kept in reserve. Directors are C. E. Percy, H. Nielson, P. Friedland and R. Cohen. A description of the deposit (geological) was published in the February 9th issue of The South African Mining and Engineering Journal. The property is located on the farm Stoltzburg No. 202, Carolina.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date issued, name of patentee and name of invention.

Method of Re-siding Walls. No. 2,394,380. Granted on February 5, 1946 to Ambrose W. Herbes, Jackson Heights, New York, assignor to The Ruberoid Co., New York. Application June 26, 1945. Serial No. 601,560.

A method of re-siding a wall composed of lapped horizontal courses of wooden siding elements, each course having an exposed face inclined from the vertical, which comprises applying flat boards of asbestos-cement of uniform thickness to the inclined exposed faces of the wooden siding elements with the lower edges of said boards overhanging the butts of the underlying side elements and nailing said boards along their upper edges to the underlying covering so that the nail heads of each course of asbestos-cement boards are covered by the overhang of the boards of the next upper course.

Pre-fabricated Building Construction. No. 2,395,162. Granted on February 19, 1946, to Charles Burwell Kerrins Van Norman, Vancouver, B. C. Canada. Application April 8, 1944. Serial No. 530,126. Description upon request.

THIS and THAT

The American Society of Heating & Ventilating Engineers has purchased property at 7218 Euclid Avenue, Cleveland 3, Ohio, to provide adequate research facilities for serving the entire heating, ventilating and air conditioning industry as well as the associated industries. The move to the new home for the Society's Research Laboratory was effective April 1st.

. . . —

J. Hugh Bolton was elected President of the Whitin Machine Works Co. at the annual meeting held recently. He succeeds E. Kent Swift who has been named chairman of the Board. The Whitin Machine works makes textile machinery.

. . . —

The General Electric Company announces that its stockholders, as of March 15, had soared to an alltime high of 243,233. This shows a gain of about 7500 in the number of stockholders on record a year ago.

. . . —

At the 27th annual convention of the Associated General Contractors of America, held February 18th to 21st in Chicago, Warren S. Bellows, president of W. S. Bellows Construction Company of Houston, Texas, was elected President. Mr. Bellows' firm has handled more than 200 million dollars worth of work in its 20 years of existence.

. . . —

The thirty-fourth annual meeting of the National Chamber of Commerce, will be held in Atlantic City April 30, May 1 and May 2.

. . . —

The Semi-Annual Meeting of the American Society of Heating and Ventilating Engineers in 1946 will be held June 10, 11 and 12, with the Montreal Chapter members acting as hosts. The meeting will open at the Mount Royal Hotel and will continue aboard the cruise ship "Quebec" up the St. Lawrence with stops at Quebec, Murray Bay and Tadoussac.

AFTERTHOUGHTS

On pages 20 of our February number, with the article on Asbestos in French Morocco we showed a photograph of an asbestos deposit in Northern Africa, the exact location of which we were not certain. It was quite interesting therefore to receive a letter on March 29th from J. Dudler of Cairo, Egypt, telling us that he took the picture last year and that the mine is owned by the Egyptian Asbestos Company and is situated in the Eastern Desert of Egypt.

• • • —

Information concerning asbestos production, etc., which could not be published during the war, is now trickling in from various asbestos-producing and consuming centers, some of it coming direct to this office and some to the U. S. Bureau of Mines. As this is received, either directly or thru Mineral Trade Notes (published by the U. S. Bureau of Mines) we are recording in the pages of "ASBESTOS" so that the record eventually will be as complete as possible. This issue contains articles of this type—see especially page 4 on Australia.

• • • —

There are several interesting new advertisements this month, to say nothing of the whole page of classified ads. Don't miss them.

• • • —

Speaking of Building Codes, the 1946 Edition of the Uniform Building Code is now off the press. Adopted by the Pacific Coast Building Officials Conference in October 1927, this new edition contains revisions and additions approved at the Annual Meeting held September 1945. For the first time a chapter on prefabricated construction has been incorporated in the Code.

The Conference has tried to issue a building code that is modern enough to recognize new materials and elastic enough to permit new uses of old materials.

Copies of the Uniform Building Code may be obtained from the Colling Publishing Company, 124 W. 4th St., Los Angeles 13, Calif. The price is $3.00 clothbound; $2.50 paperbound.

CLASSIFIED ADS.

WANTED—TO PURCHASE

Asbestos Pipe Covering Winder required. New or used. State price, capacity, condition. Address Box 11-A-M, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

CORRUGATING MACHINE FOR SALE

With 3 sets of rolls for Asbestos paper work. Address Box 2C-L, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

POSITION WANTED

Man with estimating and sales experience of commercial and industrial insulation, Address Box 3L-C, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

OPPORTUNITY

We have exceptional opportunity for competent plant operator experianced asbestos-cement siding and roofing production to become part of new growing business. ASSOCIATED INDUSTRIES, Inc., 383 Brannan St., San Francisco 7, Calif.

POSITION WANTED

As superintendent or manager of asbestos cement plant. Twenty years experience. Would go to foreign country. Address Box 4S-W, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

ASBESTOS CEMENT PRODUCTION ENGINEER

Responsible position with future available for man with experience in Asbestos Cement Products manufacturing equipment and processes. State particulars, experience, compensation expected. Answers will be treated confidentially. Address Box No. 4S-M, "ASBESTOS", 17th Floor, Inquirer Bldg., Phila., 30, Pa.

FOR SALE

6600 lbs. Asbestos Cloth 38"—10 ends per inch, warp and filling—1.72 lbs. sq. yard.—thickness .065—Asbestos content 80%. D. F. Haverstick, 120 Liberty St., New York, 6, N. Y.

MECHANICAL ENGINEER

With recent experience in layout and installation of asbestos-cement handling, mixing and processing equipment. Good opportunity. Give experience, background and salary desired. Address Box 4R-Y, "ASBESTOS", 17th Floor, Inquirer Bldg., Phila., 30, Pa.

DISTRIBUTORSHIP WANTED

Full line quality heat and cold insulations, millboards, papers, cement sheetings. Well established accounts Penna., Ohio, New York territory. Box 4D-L, 17th Fl., Inquirer Bldg., Phila., 30, Pa.

POSITION WANTED

Salesman or department manager. Considerable experience cement sheeting, paper, millboard, insulation sales, contract estimating, application. Excellent record, references. Box 4P-M, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

FOR SALE

14 tons Reprocessed Bulk Amosite Fibre in 50 lb. bags. Will sell as lot or in small quantities. Address Asbestos Insulating Company, Corner Astor & Main Streets, Norristown, Pa.

CURRENT RANGE OF PRICE

As of April 10, 1946

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)
Group No. 1 (Crude No. 1)	$650.00 to $750.00
Group No. 2. (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00 to 385.00
Group No. 3 (Spinning or Textile Fibre)	124.00 to 260.00
Group No. 4 (Shingle Fibre)	62.50 to 90.00
Group No. 5 (Paper Fibre)	44.00 to 53.00
Group No. 6 (Waste, Stucco or Plaster)	33.00 to 35.00
Group No. 7 (Refuse or Shorts)	14.50 to 30.00

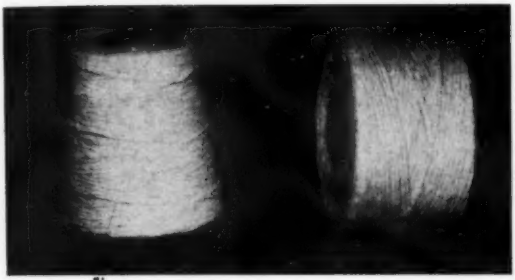
Vermont—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)
Shingle Stock Fibres	$62.50 to $65.50
Paper Stock Fibres	44.00 to 54.00
Waste	33.00
Shorts	14.50 to 28.50
Floats	19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		March 1946		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	52¾	59½	59½
Armstrong Cork Co. (Pfd.)	np	107	120	119
Asbestos Mfg. Co. (Com.)	1	5⅞	6⅝	5⅞
Asbestos Corp. (Com.)	np	30	33¼	33
Celotex (Com.)	np	23¾	28¾	28½
Celotex (Pfd.)	20	20⅝	21½	21¼
Certainteed (Com.)	1	16½	19⅜	18½
Certainteed (Pfd.)	100	110	115	115
Flintkote (Com.)	np	35½	41	41
Flintkote (Pfd.)	np	112½	114⅞	114⅞
Johns-Manville (Com.)	np	140	154⅛	153½
Johns-Manville (Pfd.)	100	125	141	141
Raybestos-Manhattan (Com.)	np	42	46⅜	46⅜
Ruberoid (Com.)	np	43¾	49¼	48
Thermoid (Com.)	1	14⅜	16¼	16
Thermoid (Pfd.)	50	58	65½	64
U. S. Gypsum (Com.)	20	112	125	121
U. S. Gypsum (Pfd.)	100	202¼	207	207
U. S. Rubber (Com.)	10	64⅛	71	71
U. S. Rubber (Pfd.)	100	170	184¼	184¼



ASBESTOS ROVING

Raybestos-Manhattan produces a complete line of rovings to service the varied and exacting requirements of the wire and cable industry.

R/M rovings are furnished in Underwriters grade for heater cord, stove wire, A.F. fixture wire, etc., also in Grade A for shipboard cable. Grades AA, AAA, and AAAA are offered for special requirements. Colored rovings are furnished for polarity identification.

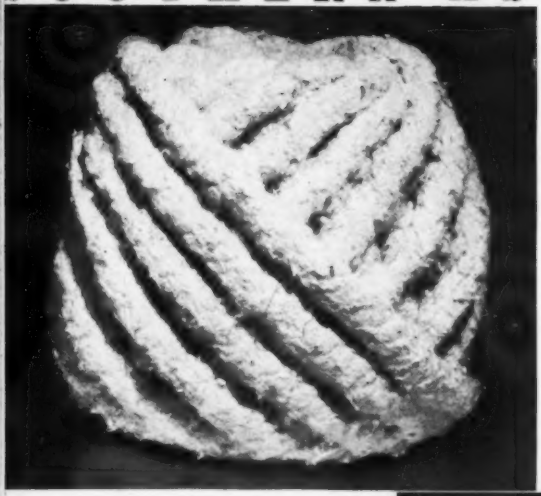
Years of experience in the proper blending of asbestos fibre, together with the most modern plant facilities, enable R/M to produce a superior roving to meet each individual need. We offer the services of our Engineering Department in the solution of your roving problems.

RAYBESTOS-MANHATTAN, INC.

Asbestos Textile & Packing Division

MANHEIM, PA. PASSAIC, N. J.
BRIDGEPORT, CONN. NO. CHARLESTON, S. C.

SOUTHERN ASBEST



WIC

Numerous strand
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of asbestos. Use
packing steam an
water valves, fore
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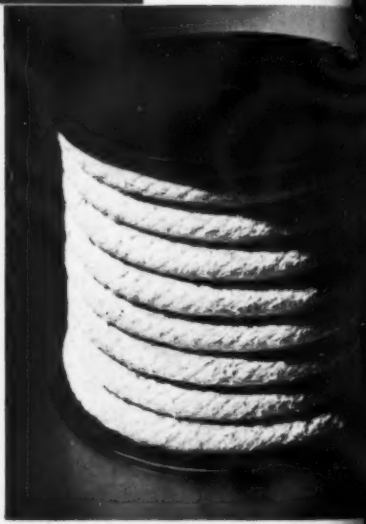
on oven or fu
doors, and for
wiping.

ROPE

Asbestos Rope for all applications—for packings, as a seal for fire doors and traps, as lagging, furnace door packing, covering for boiler exhaust lines, etc. Write for Folder No. 1001.

Our research and manufacturing facilities are available for improving old uses or finding new uses for asbestos fibre and textiles. Southern's 25 years of specialized experience is at your service.



A COMPLETE LINE OF ASBESTOS TEXTILE PRODU

THREAD • CORD • CLOTH • ROVING • TUBING

CARDED FIBRE • LISTING TAPE • YARN • OIL BURNER

SOUTHERN ASBESTOS COMPANY • CHARLOTTE 1